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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.

09/429.283

10/28/99

UENO

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0057-2534-2Y

MM92/0620

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EXAMINER FOURSON III.G PAPER NUMBER **ART UNIT**

2823

DATE MAILED:

06/20/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

-	Application	No.

Applicant(s)

09/429,283

Ueno et al

Examiner

Office Action Summary

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Group Art Unit 2823



	George Fourson	2823	
Responsive to communication(s) filed on			
☐ This action is FINAL .			
☐ Since this application is in condition for allowance excel in accordance with the practice under Ex parte Quayle,		n as to the me	rits is closed
A shortened statutory period for response to this action is is longer, from the mailing date of this communication. Fa application to become abandoned. (35 U.S.C. § 133). Ex. 37 CFR 1.136(a).	ilure to respond within the period	for response	will cause the
Disposition of Claims			
	is/are p	ending in the	application.
Of the above, claim(s)	is/are wi	thdrawn from	consideration.
	is	/are allowed.	
X Claim(s) 10, 12, 14, and 15	is	/are rejected.	
Claim(s)			to.
☐ Claims			
Application Papers See the attached Notice of Draftsperson's Patent Draining See the attached Notice of Series See the attached Notice of Draftsperson's Patent Draining See the attached Notice of Draftsperson's Patent Draftsperson's	objected to by the Examiner. 8, 1999 is Approved er. ority under 35 U.S.C. § 119(a)-(a) ies of the priority documents have I Number) 08/958,546 in the International Bureau (PCT R	ve been	
Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Page Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PT Notice of Informal Patent Application, PTO-152	 O-948		
SEE OFFICE ACTION	ON THE FOLLOWING PAGES		

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The amendment filed 10/28/99 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the amendment to line 3 on page 93.

Applicant is required to cancel the new matter in the reply to this Office action.

Claims 12,14 and 15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 12, line 8, there is no antecedent basis for "third types of transistor". In claim 14, line 6, "on said" has been misspelled.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10,14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kadosh et al

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'739 in view of Wolf, Vol.2.

Kadosh teaches formation of a nitrogen implant region in a lower portion of a gate electrode. The reference does not disclose formation of field oxide regions, formation of the device in a doped surface layer, threshold voltage adjustment by selective implantation, formation of multiple MOSFET's having different gate oxide thicknesses or implantation of different concentrations into gates of multiple MOSFET's.

Wolf discloses formation of MOSFET devices to suitably include formation in a doped epitaxial layer, formation of field oxide regions and selective threshold voltage adjustment (pp. 321 and 390). It would have been within the scope of one of ordinary skill in the art to employ the processes of Wolf for their disclosed intended purposes to achieve the MOSFET formation process of Kadosh.

Kadosh discloses that nitrogen implantation is not needed when the polycrystalline silicon layer is doped appropriately (col.12, lines 34-42). It would have been within the scope of one of ordinary skill in the art to form both kinds of transistors on a single wafer given the teaching that the method would produce working devices.

Claims 11 and 13 are allowed.

Claim 12 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956. **See MPEP 203.08**.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner George Fourson whose telephone number is (703) 308-2544. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703) 308-4918. The fax number for this group is (703)308-7722(and 7724 and 7382). MPEP 502.01 contains instructions regarding procedures used in submitting responses by facsimile transmission.

Primary Examiner
Art Unit 2823

GFourson June 18, 2000